

5'	NNT	CAA	AGC	CAG	CTG	AAG	GAA	AGA	GGA	AGT	GCT	AGA	GAG	AGC	CCC	CTT	CAG	TGT
9						18		27				36					45	54
	GCT	TCT	GAC	TTT	TAC	GGA	CTT	GGC	TTG	TTA	GAA	GGC	TGA	AAG	ATG	ATG	GCA	GGA
63						72		81				90					99	108
	ATG	AAA	ATC	CAG	CTT	GTA	TGC	ATG	CTA	CTC	CTG	GCT	TTC	AGC	TCC	TGG	AGT	CTG
117						126		135				144					153	162
	M	K	I	Q	L	V	C	M	L	L	L	A	F	S	S	W	S	L
	TGC	TCA	GAT	TCA	GAA	GAG	GAA	ATG	AAA	GCA	TTA	GAA	GCA	GAT	TTC	TTG	ACC	AAT
171						180		189				198					207	216
	C	S	D	S	E	E	E	M	K	A	L	E	A	D	F	L	T	N
	ATG	CAT	ACA	TCA	AAG	ATT	AGT	AAA	GCA	CAT	GTT	CCC	TCT	TGG	AAG	ATG	ACT	CTG
225						234		243				252					261	270
	M	H	T	S	K	I	S	K	A	H	V	P	S	W	K	M	T	L
	CTA	AAT	GTT	TGC	AGT	CTT	GTA	AAT	AAT	TTG	AAC	AGC	CCA	GCT	GAG	GAA	ACA	GGA
279						288		297				306					315	324
	L	N	V	C	S	L	V	N	N	L	N	S	P	A	E	E	T	G
	GAA	GTT	CAT	GAA	GAG	GAG	CTT	GTT	GCA	AGA	AGG	AAA	CTT	CCT	ACT	GCT	TTA	GAT
333						342		351				360					369	378
	E	V	H	E	E	E	L	V	A	R	R	K	L	P	T	A	L	D

FIGURE 1A

387	396	405	414	423	432
GGC TTT AGC TTG GAA GCA ATG TTG ACA ATA TAC CAG CTC CAC AAA ATC TGT CAC					
G F S L E A M L T I Y Q L H K I C H					
441	450	459	468	477	486
AGC AGG GCT TTT CAA CAC TGG GAG TTA ATC CAG GAA GAT ATT CTT GAT ACT GGA					
S R A F Q H W E L I Q E D I L D T G					
495	504	513	522	531	540
AAT GAC AAA AAT GGA AAG GAA GAA GTC ATA AAG AGA AAA ATT CCT TAT ATT CTG					
N D K N G K E E V I K R K I P Y I L					
549	558	567	576	585	594
AAA CGG CAG CTG TAT GAG AAT AAA CCC AGA AGA CCC TAC ATA CTC AAA AGA GAT					
K R Q L Y E N K P R R P Y I L K R D					
603	612	621	630	639	648
TCT TAC TAT TAC TGA GAG AAT AAA TCA TTT ATT TAC ATG TGA TTG TGA TTC ATC					
S Y Y					
657	666	675	684	693	702
ATC CCT TAA TTA AAT ATC AAA TTA TAT TTG TGT GAA AAT GTG ACA AAC ACA CTT					
711	720	729	738	747	756
ATC TGT CTC TTC TAC AAT TGT GGT TTA TTG AAT GTG ATT TTT CTG CAC TAA TAT					

FIGURE 1B

765	774	783	792	801	810
AAA TTA GAC TAA GTG TTT TCA AAT AAA TCT AAA TCT TCA GCA TGA TGT GTT GTG					
819	828	837	846	855	864
TAT AAT TGG AGT AGA TAT TAA TTA AGT CAC CTG TAT AAT GTT TTG TAA TTT TGC					
873	882	891	900	909	918
AAA ACA TAT CTT GAG TTG TTT AAA CAG TCA AAA TGT TTG ATA TTT TAT ACC AGC					
927	936	945	954	963	972
TTA TGA GCT CAA AGT ACT ACA GCA AAG CCT AGC CTG CAT ATC ATT CAC CCA AAA					
981	990	999	1008	1017	1026
CAA AGT AAT AGC GCC TCT TTT ATT ATT TTG ACT GAA TGT TTT ATG GAA TTG AAA					
1035	1044	1053	1062	1071	1080
GAA ACA TAC GTT CTT TTC AAG ACT TCC TCA TGA ATC TCT CAA TTA TAG GAA AAG					
1089	1098	1107	1116	1125	1134
TTA TTG TGA TAA AAT AGG AAC AGC TGA AAG ATT GAT TAA TGA ACT ATT GTT ATT					
1143	1152	1161	1170	1179	1188
ACT TCC TAT TTT AAT GAA TGA CAT TGA ACT GGA TTT TTT TTT GAC CTG TTA ATG GAC					
1197	1206	1215	1224	1233	1242
TTG GTA GCT ATT AGA AGG ACA CTT GAC CTC CAA TAG AAA AAA AAT AAA GAA ATA					

FIGURE 1C

1	M	A	G	M	K	I	Q	L	V	C	M	L	L	A	F	S	S	W	S	L	C	S	D	S	E	E	E	M	K	A	L	E	A	D	F	L	T	N	HPN			
1	M	-	A	G	M	K	I	Q	L	V	C	M	I	L	L	A	F	S	S	W	S	L	C	S	D	S	E	E	E	M	K	A	L	E	D	L	L	T	N	GI 163424		
1	M	I	-	G	M	N	L	Q	L	V	C	L	T	L	L	A	F	S	S	W	S	L	C	S	D	S	E	E	D	V	R	A	L	E	A	D	L	L	T	N	GI 92546	
41	M	H	T	S	K	I	S	K	A	H	V	P	S	W	K	M	T	L	L	N	V	C	S	L	V	N	N	N	L	N	S	P	A	E	E	T	G	E	V	H	E	HPN
40	M	H	T	S	K	I	S	K	A	S	V	P	S	W	K	M	S	L	L	N	V	C	S	L	I	N	N	L	N	S	Q	A	E	E	T	G	E	F	H	E	GI 163424	
40	M	H	A	S	K	V	S	K	G	S	P	P	S	W	K	M	T	L	L	N	V	C	S	L	I	N	N	L	N	S	A	A	E	E	A	G	E	M	R	D	GI 92546	
81	E	E	L	V	A	R	R	K	L	P	T	A	L	D	G	F	S	L	E	A	M	L	T	I	Y	Q	L	H	K	I	C	H	S	R	A	F	Q	H	W	E	HPN	
80	E	E	L	T	R	R	K	E	P	A	A	L	D	G	F	S	L	E	A	M	L	T	I	Y	Q	L	K	I	C	H	S	R	A	F	Q	H	W	E	GI 163424			
80	D	D	L	V	A	K	R	K	L	P	L	V	L	D	D	F	S	L	E	A	L	L	T	V	F	Q	L	K	I	C	R	S	R	A	F	Q	H	W	E	GI 92546		
121	L	I	Q	E	D	I	L	D	T	G	N	D	K	N	G	K	E	E	V	I	K	R	K	I	P	Y	I	L	K	R	Q	L	Y	E	N	K	P	R	R	P	HPN	
120	L	I	Q	E	D	I	L	D	A	G	N	D	K	N	E	K	E	E	V	I	K	R	K	I	P	Y	I	L	K	R	Q	L	Y	E	N	K	P	R	R	P	GI 163424	
120	I	L	Q	E	D	I	L	D	H	G	N	E	K	T	E	K	E	E	V	I	K	R	K	I	P	Y	I	L	K	R	Q	L	Y	E	N	K	P	R	R	P	GI 92546	
161	Y	I	L	K	R	D	S	Y	Y																												HPN					
160	Y	I	L	K	R	G	S	Y	Y																											GI 163424						
160	Y	I	L	K	R	A	S	Y	Y																											GI 92546						

FIGURE 2